PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 188-03	FOR FURTHER ACTION See Form PCT/IPEA/416							
International application No.	International filing date (day/month/year) Priority d		Priority date (day/month/year)					
PCT/SE2004/001765		ay/month/year)						
	29-11-2004	I IDC	09-12-2003					
International Patent Classification (IPC) or national classification and IPC								
See Supplemental Box								
Applicant								
SCANIA CV AB (publ) e	t al							
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total	of 4 sheets,	including this cover	· sheet.					
3. This report is also accompanied b	y ANNEXES, comprising:							
a. (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:								
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
		<i>(* 1* 4 4)</i>						
b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))								
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications re	elating to the following item	ıs:						
Box No. I Basis o	f the report							
Box No. II Priority	7							
Box No. III Non-es	tablishment of opinion with	regard to novelty, i	nventive step and industrial applicability					
Box No. IV Lack of	funity of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain	documents cited							
Box No. VII Certain	defects in the international	application						
Box No. VIII Certain observations on the international application								
Date of submission of the demand Date of completion of this report								
Date of submission of the demand		Date of completion	of this report					
01-07-2005		02-01-2006						
Name and mailing address of the IPEA/S	E	Authorized officer						
Patent- och registreringsverket Box 5055								
S-102 42 STOCKHOLM		Daniel Åberg / JA A						
Facsimile No. +46 8 667 72 88			8 782 25 00					

Form PCT/IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

-10/507032

International application No.

PCT/SE2004/001765

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Cover sheet

INTERNATIONAL PATENT CLASSIFICATION (IPC):

B62D 1/08 (2006.01) **B62D 1/04** (2006.01)

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

10/582032

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/SE2004/001765

International application No.

Box	No. I	Basis of the report	ADS REPORT PORT TO LE 7 JUN 2005						
1.	With r	egard to the language, this report is based on:							
	\boxtimes	the international application in the language in which it was filed							
		a translation of the international application into which is the language of a translation furnished for	ation of the international application into,						
		international search (Rules 12.3(a) and 23.							
		publication of the international application							
		international preliminary examination (Rul							
2.	furnish	th regard to the elements of the international application, this report is based on (replacement sheets which have been nished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" d are not annexed to this report): the international application as originally filed/furnished the description:							
		pages <u>1-6</u>	as originally filed/furnished						
		pages*	received by this Authority on						
	K 3	pages*	received by this Authority on						
	\bowtie	the claims:							
		pages*	as originally filed/furnished						
		pages* 7,8	as amended (together with any statement) under Article 19 received by this Authority on 23-12-2005						
		pages* // o	received by this Authority on 23-12-2005 received by this Authority on						
	\boxtimes	the drawings:							
		pages 1	as originally filed/furnished						
		pages*	received by this Authority on						
		pages*	received by this Authority on						
		a sequence listing and/or any related table(s) - see	Supplemental Box Relating to Sequence Listing.						
3.		The amendments have resulted in the cancellation	of:						
	_ -	the description, pages							
		the claims, Nos.							
		the drawings, sheets/figs							
	ng (specify):								
4.	the amendments annexed to this report and listed below had not been ond the disclosure as filed, as indicated in the Supplemental Box (Rule								
		the description, pages							
		the drawings, sheets/figs	the claims, Nos. the drawings, sheets/figs						
		any table(s) related to the sequence listin							
*	If item	4 applies, some or all of those sheets may be marke	d "superseded."						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001765

Bo	x No. V	Reasoned statement u citations and explanat		5(2) with regard to novelty, inventive step or indung such statement	strial applicability;
1.	Statement	1			
	Nove	lty (N)	Claims	1-5	YES
:			Claims		NO
	Inventive step (IS)		Claims	1-5	YES
			Claims		NO
	Indus	trial applicability (IA)	Claims	1-5	YES
			Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: JP 6329025 A
D2: JP 5131933 A
D3: US 5090731 A
D4: US 5002306 A
D5: US 4638131 A

The cited documents represent the general state of the art. The invention defined in claims 1-5 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed vehicle steering wheel. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-5 is novel and is considered to involve an inventive step. The invention is industrially applicable.

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CLAIMS

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AP3 Rec'd PCT/PTA

- 1. A vehicle steering wheel (1) comprising a rim (2), a signal cap (3) and two upper and two lower spokes (4, 5) extending between the rim (2) and the signal cap (3), the upper spokes (4) extending along the horizontal symmetry axis (H-H) of the steering wheel (1) towards its centre, **characterized in** that the two lower spokes (5) are graspable, that the lower spokes (5) extend from positions around the rim (2) so that points P_1 , P_2 that are in line with the upper edge of the respective lower spokes (5) on the outer surface of the rim are located between 30° and 60° below the horizontal symmetry axis (H-H) on either side of the vertical symmetry axis (V-V) of the steering wheel (1), and that the upper edge of the lower spokes (5), which is in line with the respective points P_1 , P_2 form an angle (β) of between 62° and 82° with the vertical symmetry axis (V-V) of the steering wheel (1) and in that a multifunctional switch module (6) with thumb-operated control buttons (7) for remote actuation of specific vehicle functions is located symmetrically between the two lower spokes (5) beneath the signal cap (3), wherein the driver can operate the module while grasping the lower spokes.
- 2. The steering wheel according to claim 1, characterized in that the two points P_{1} , P_{2} are situated 40° below the horizontal symmetry axis (H-H) on either side of the vertical symmetry axis (V-V) of the steering wheel (1).
- 3. The steering wheel according to claim 1 or 2, characterized in that the angle (β) from the vertical symmetry axis (V-V) of the steering wheel to the respective points P_1 , P_2 (1) are between 67° and 77°.
- 4. The steering wheel according to claim 3, characterized in that the angle (β) is 72°.

5. The steering wheel according to any of claims 1 - 4, characterized in that the lower spokes (5) are separated from the upper spokes (4) by spaces (8) for receiving a driver's elbows.